



Algorithm Engineer

About Serstech

Serstech develops handheld Raman spectrometers, which are used by law enforcement and first responders to identify narcotics and other hazardous chemicals. The instruments are slightly larger than a mobile phone and contains highly sophisticated optics and software. Serstech is the only manufacturer of handheld Raman instruments in the European Union and customers include United Nations and World Customs Organization. Production of Serstech's products is done in Sweden by a third-party manufacturer.

Currently, the R&D-team consists of 12 people, but that is expected to grow fast and surpass 20 people by the end of 2023, and then continue to grow.

The company and the team are both characterized by large flexibility, high skill-levels and clear customer focus. Our company values are excellence, joy, trust and openness. These values are important success factors and are nurtured, lived and encouraged daily.

About the role

The algorithm engineer refines and develops the matching algorithms that are a core part of the instruments. The inputs to the algorithms are reference measurements that are stored in each instrument, and the measurement of the sample substance that a user wants to identify. The instrument matches the measurement against the reference library and displays a possible match, including a confidence level. In those cases the substance is not pure, each component of the sample is identified and displayed to the user.

A Raman spectrum looks similar to an EKG printout, with a number of peaks in precise positions and with various amplitudes. The combination of positions and amplitudes of the peaks constitute the chemical "fingerprint" of the substance and is unique to each set of molecules.

Requirements

The successful candidate must have

- at least five years of experience in advanced algorithm development
- at least a master's degree within a mathematics-heavy field
- experience from working with probability density functions
- experience from Python development
- a deep understanding of, and a profound interest in technology
- a hands-on, collaborative, unpretentious and open mindset
- fluency in English, both spoken and written

The successful candidate should have

- experience from artificial intelligence development
- experience from image analysis or similar field
- experience from start-ups, scale-ups and/or own business ventures
- at least some understanding of the Swedish language

What can Serstech do for you?

The recruitment is handled by Radeptus and Jenny Månsson. Please apply with your CV and personal letter to jenny@adeptus.se before February 20th 2023. We will make selections and interviews on an ongoing basis, so do not wait to apply! If you have any questions feel free to contact Jenny Månsson by email jenny@adeptus.se or phone +46 703 318506